Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

XY-LowPressure-USNP

**CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US2003/024460 01 August 2003 (01/08/2003) 01 August 2002 (01/08/2002) TITLE OF INVENTION Low Pressure Sperm Cell Separation System APPLICANT(S) FOR DO/EO/US John L. Schenk, George E. Seidel, Tae Kwang Suh Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). P A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. V Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. l Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. 1 An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. 16. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18 A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). firm letter of transmittal; Certificate of Express Mailing for each document; return postcard 20. Other items or information:

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

PTO-1390 (Rev. 12-2004)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.					ATTORNEY'S DOCKET NUMBER	
10/523268 PCT/US2003/024460					XY-LowPressure-USNP	
21. The following fees are submitted:					Applicant use	Office use only
a) Basic national fee\$300.00					\$	
b) Examination fee\$200.00					\$	
<b>✓</b> c) Search fee\$500.00					\$	
TOTAL OF ABOVE CALCULATIONS = \$1000.00					\$ 1,000.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE		
- 100 =	/50 =			x \$250.00	\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					\$ 130.00	
CLAIMS NUMBER FILED		.ED	NUMBER EXTRA	RATE	\$	•
Total claims 4		7 - 20 =	27	<b>\$50.00</b>	\$ 1,350.00	
Independent clai	ms 3	- 3 =	0 >	\$200.00	\$ 0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00					\$ 0.00	
TOTAL OF ABOVE CALCULATIONS =					\$ 2,480.00	
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.					\$	
SUBTOTAL =					\$ 2,480.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).					\$	
TOTAL NATIONAL FEE =					\$ 2,480.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$	
TOTAL FEES ENCLOSED =					\$ 2,480.00	
Amount to be refunded:						\$
Amount to be charged						\$
a. A check in the amount of \$ to cover the above fees is enclosed.						
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees.  A duplicate copy of this sheet is enclosed.						
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit						
Account No A duplicate copy of this sheet is enclosed.  d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not						
be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the international Application to pending status.						
SEND ALL CORRESPONDENCE TO:						
Nicole A. Ressue Santangelo Law Offices, P.C. SIGNATURE				a Penue	01/31/2605	
	125 South Howes, Third Floor Fort Collins, CO 80521  Nicole A. Re				sue	
i on comis,	NAME					_
PTO Reg. No.					. 48,665	
REGISTRATION NUMBER						

FORM PTO-1390 (REV. 12-2004)

Page 2 of 2

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

John L. Schenk, George E. Seidel, Tae Kwang Suh

Application Number:

Filed:

Title:

Low Pressure Sperm Cell Separation System

TC/A.U: Examiner:

International Application No: PCT/US2003/024460, Filed 01 August 2003

Original US Application:

60/400,971, Filed 01 August 2002

Assignee:

XY, Inc. and COLORADO STATE UNIVERSITY through its agent

Colorado State University Research Foundation

Attorney Docket:

XY-LowPressure-USNP

Customer No.

33549

#### LETTER OF TRANSMITTAL

Mail Stop PCT Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450.

Sir:

Enclosed for filing is a United States National Stage application under 35 U.S.C. §371 entitled "Low Pressure Sperm Cell Separation System", including the following documents:

- 1. a Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) concerning a filing under 35 U.S.C. 371 (FORM PTO-1390 (REV 12-2004));
- 2. an Application Data Sheet;
- 3. a Preliminary Amendment;
- 4. Powers of Attorney from XY, Inc. and COLORADO STATE UNIVERSITY through its agent Colorado State University Research Foundation;

- 5. an Information Disclosure Statement -- copies non-US references cited (Foreign Patent/Publications and Other Documents) will be sent under separate cover;
- 6. this Letter of Transmittal along with a Credit Card Payment Form authorized in the amount of \$2,480.00 for National Phase filing fee; and
- 7. Express Mail Certificates for each document and a Postcard Receipt for return to the undersigned.

Please confirm receipt of the documents by applying your date stamp and serial number on the enclosed postcard and returning it to me.

Please address all future correspondence to: Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, CO 80521.

I have this 3 day of January, 2005, either myself personally or through my direction of staff at this office, deposited all of the items in the above letter of transmittal with the United States Postal Service as Express Mail, postage prepaid, in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 3 day of January, 2005.

Respectfully Submitted, SANTANGELO LAW OFFICES, P.C.

By: Micole A. Ressue

Attorney for Assignee

PTO No, 48,665

125 South Howes, Third Floor

Fort Collins, CO 80521

(970) 224-3100

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Applicants:

John L. Schenk, George E. Seidel, Tae Kwang Suh

**Application Number:** 

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Assignee:

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Colorado State University Research Foundation

Attorney Docket:

XY-LowPressure-USNP

Customer No.

33549

#### **CERTIFICATE OF EXPRESS MAILING**

I, Cheryl A. Swanson, hereby certify to the truth of the following items:

- 1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, Colorado 80521.
- 2. I have this day deposited the attached Letter of Transmittal along with a Credit Card Payment Form authorized in the amount of \$2,480.00 for National Phase filing fee and a return postcard with the United States Postal Service as "Express Mail" for mailing to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 3 day of January, 2005.

Cheryl A. Ewanson

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Dated this <u>3/</u> day of January, 2005.

Cheryl A. Swanson

5 Rec'd OCT/PTO 3 1 JAN 2005

Express Mail No: EV 562714059 US

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

John L. Schenk, George E. Seidel, Tae Kwang Suh

**Application Number:** 

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Dated this 3/ day of January, 2005.

Cheryl A Swanson

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- 1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, Colorado 80521.
- 2. I have this day deposited the attached Preliminary Amendment with the United States Postal Service as "Express Mail" for mailing to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 3/ day of January, 2005.

Cheryl G. Swanson

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Dated this 3/ day of January, 2005.

Cheryla. Swanson

Cheryl A. Syranson